



## **Deepwater Horizon Incident, Gulf of Mexico**

### **Region 6 REOC Update**

**Subject:** Region 6 Update # 24  
**Deepwater Horizon Incident, Gulf of Mexico**  
**Date:** May 21, 2010  
**To:** Incident Command  
**Thru:** Planning Section  
**From:** Situation Unit  
**Operational Period:** May 21, 2010 0700 – May 25, 2010 0700  
**Reporting Period:** May 20, 2010 1300 – May 21, 2010 1300

### **1. Background**

<b>Site Name:</b>	Deepwater Horizon Incident	<b>FPN#:</b>	N10036
<b>Mobilization Date:</b>	4/27/2010	<b>Start Date:</b>	4/28/2010

### **2. Current Situation**

- The incident status summary as reported in the BP Situation Executive Summary as of 0600 on 5/21:
  - 23,997 personnel and 1,085 offshore vessels are currently responding to the incident.
  - Over 1.46 million feet of containment boom and 560,000 feet of sorbent boom have been deployed.
  - Over 212,000 barrels of an oil-water mix have been recovered.
  - Over 604,000 gallons of surface dispersant have been applied. Over 73,000 gallons of subsea dispersant have been applied.
  - A total of 36 controlled burns have been conducted.
  - A SMART monitoring team was established at the Louisiana Offshore Oil Port to begin operations on 5/21.
  - Subsea dispersant injection resumed at 1630 hours on 5/19 and is currently ongoing. Crews plan to continue subsea dispersant injection on 5/21.

#### **2.1 (USCG) Incident Command Post (Houma, LA)**

- No surface dispersant was applied on 5/20 due to the presence of weathered oil; however, sub-surface dispersant injection was conducted.
- Controlled burns were conducted on 5/20.

- SCAT teams reported that Fourchon Beach was heavily oiled and that oil may have flowed over the beach into the back waters. Ground teams reported that the oil is present on the western portion of Grand Isle, LA. An Aerial SCAT of Brush Island indicated the presence of oil on the island.
- BP reported that 21 boats and 4 helicopters were deployed for wildlife reconnaissance and rescue operations on 5/20.
- The EPA Emergency Response DATA Team collaborated with NOAA to facilitate the first meeting of BP's Information Management Team. EPA plans to provide support to the USCG and NOAA to document the existing data flows.

## **2.2 (USCG) Area Command Post (Robert, LA)**

- Members of the EU, including representatives from NOAA, EPA, BP, and USCG met on 5/21, reviewed the Brooks McCall data report, and offered the following observations/questions:
  - No data received to date is near the shutoff criteria established for Dissolved Oxygen or Toxicity.
  - Data from 5/20 appears to indicate that the dispersed plume is smaller than observed last week.
  - Since injection was continuous, currents were the same, and sampling methods were identical, it appears that the smaller plume footprint could be due to weaker source strength (lower release rate)
  - At least one sampling location near the dispersant injection site will be re-sampled each day in order to allow simple trend analysis. This will typically be the sample that will be used for Rototox analysis since it should have the highest hydrocarbon concentrations.
- EPA continued to coordinate logistics for a second sampling operation during dispersant application.
- EPA worked to identify a potential alternate source for dispersants.
- EPA met with NOAA to coordinate deep sea sampling activities.

## **2.3 Air Monitoring/Sampling**

- EPA continues to conduct air monitoring and sampling in Venice operations area (VOCs and Particulates):
  - Venice, LA - 29.25274 N, 89.35750 W - V02;
  - Boothville, LA - 29.31449 N, 89.38433 W - V03;
  - Fort Jackson, LA - 29.35699 N, 89.45487 W - V05.
- EPA continues to conduct air monitoring and sampling in Chalmette operations area (VOCs and Particulates):
  - Poydras, LA - 29.86609, -89.89108 - C02 - located at Fire Station number 8;
  - Chalmette, LA - 29.96082, -90.00132 - C04 - located at Fire Station on Aycock St.
  - Hopedale, LA, - 29.84049, -89.68980 - C05 - located at Fire Station number 11.
- Each air monitoring location has 4 pieces of air equipment:
  - EBAM (Particulate Monitors)-equipment has replaced DataRAM's;
  - AreaRae/MultiRae - monitoring VOCs;
  - PQ200 - samples for PM2.5;
  - SUMMA Canisters per location - sample for VOCs.
- Air monitoring/sampling stations are monitored throughout the day (24 hours) for immediate reporting of any elevated VOC or particulate levels. The maximum reading is reported to the OSC at Mobile Command Post in Venice and Chalmette.

- Real-time air monitoring data from midnight to midnight each day is reviewed for field QA and uploaded into SCRIBE by 1200 each day and available to EPA Headquarters, REOC, and external response partners.
- There are no exceedances to report.

**EPA summary of air monitoring/sampling activities:**

<b>Air Monitoring &amp; Samples</b>	<b>DataRAM (PM10)</b>	<b>AreaRae</b>	<b>SUMMA Canisters</b>	<b>PM2.5</b>	<b>TOTALS FOR 5/17</b>
<b>Venice</b>	3 locs/24-hr	3 locs/24-hr	3	3	6
<b>Chalmette</b>	3 locs/24-hr	3 locs/24-hr	3	3	6
<b>TOTAL TO DATE</b>	6 locs/24-hr	6 locs/24-hr	239	120	

\*QAQC samples not included in sample count

## 2.4 Water/Sediment Sampling

- EPA continues to conduct water sampling at locations provided by EPA Headquarters and selected through National Coastline Condition Assessment (NCCA) program. The NCCA sample locations are sampled every four years by state agencies with U.S. Coastlines. Sample parameters and locations were also selected in coordination with the EPA Region 6 Water Quality Division.
- Representatives from the Water Division and the REOC Environmental Units from R6 and R4 conduct a conference call three times a week with the HQ EOC to discuss the coordination and consistency of water and sediment sampling across the Deepwater Horizon Incident Response.
- On 5/20, Chalmette water operations conducted sampling in the Terrebonne and Timbalier Bays area near Ft. Fouchon and Grand Isle, LA to assess impacts from oil and dispersants.
- On 5/21 Chalmette water operations plan to collect water samples from the four points of concern in the Terrebonne and Timbalier Bays area. Samples will be collected from these locations once every 3-5 days.
- Venice water operations were not conducted on 5/20 and are scheduled to resume on 5/21. The target locations are along the Venice delta.

**EPA summary of water/sediment activities:**

<b>Water/Sediment Samples</b>	<b>Water</b>	<b>Sediment</b>	<b>TOTALS FOR 5/18</b>
<b>Venice</b>	0	0	0
<b>Chalmette</b>	6	1	7
<b>TOTAL TO DATE</b>	85	71	

\*QAQC samples not included in sample count

## **2.5 TAGA**

- On 5/20, TAGA performed mobile monitoring for oil dispersant indicator compounds, OD-00 and OD-27, from Slidell, LA to Venice, LA. All observed OD-00 and OD-27 indicator compounds were associated with a point source.
- TAGA plans to perform mobile monitoring for oil dispersant indicator compounds, OD-00 and OD-27, on 5/21 in Southern MS and AL.

## **2.6 ASPECT.**

- On 5/20, ASPECT completed two missions. During the first mission, no oil burns were observed. A high altitude photo survey was conducted over the recovery area. Skimming operations were noted approximately 5 miles north of the rig site. During the second mission, ASPECT observed two oil fires.
- ASPECT personnel made general assessment by comparing aerial images from 5/17 to those collected 5/20. It appears that oil coverage over the rig area is beginning to break up into masses.
- ASPECT is not scheduled to fly on 5/21 while maintenance is conducted on the aircraft.

## **2.7 Water Quality Protection Division Update**

- The Water Quality Protection Division situation update is attached.

## **3. EPA Assets**

### **3.1 Current Assets Deployed**

- Activated in Dallas, TX
  - REOC activated
  - SRICT activated
  - RRT activated

**Deployed Personnel**

<b>Personnel</b>	<b>Dallas, TX</b>	<b>Robert, LA</b>	<b>Houma, LA</b>	<b>New Orleans, LA</b>	<b>Chalmette, LA</b>	<b>Venice, LA</b>	<b>Slidell, LA</b>	<b>TOTALS</b>
<b>EPA</b>								
- OSC	3		1		3	1		8
- RSC	5	1	1					7
- PIO		3						3
- Other	3	2	1	1				7
<b>START</b>	4				14	14		32
<b>ERT Contractor</b>								
<b>TAGA Personnel</b>							5	5
<b>ASPECT Personnel</b>							4	4
<b>Other</b>								
<b>TOTALS</b>	15	6	3	1	17	15	9	66

**Deployed Equipment**

<b>Equipment</b>	<b>Dallas, TX</b>	<b>Robert, LA</b>	<b>Houma, LA</b>	<b>New Orleans, LA</b>	<b>Chalmette, LA</b>	<b>Venice, LA</b>	<b>Slidell, LA</b>	<b>TOTALS</b>
<b>Mobile Command Post</b>						1		1
<b>ASPECT</b>							1	1
<b>TAGA Bus</b>							1	1
<b>LRV</b>		1			1			2
<b>Gooseneck Trailer</b>						1		1
<b>20 KW Generator</b>						1		1
<b>Dually Truck (R7)</b>					1			1
<b>Boat (R7)</b>					1			1

\* One TAGA bus has been assigned to Region 4 Operations

#### 4. Daily Cost Estimates

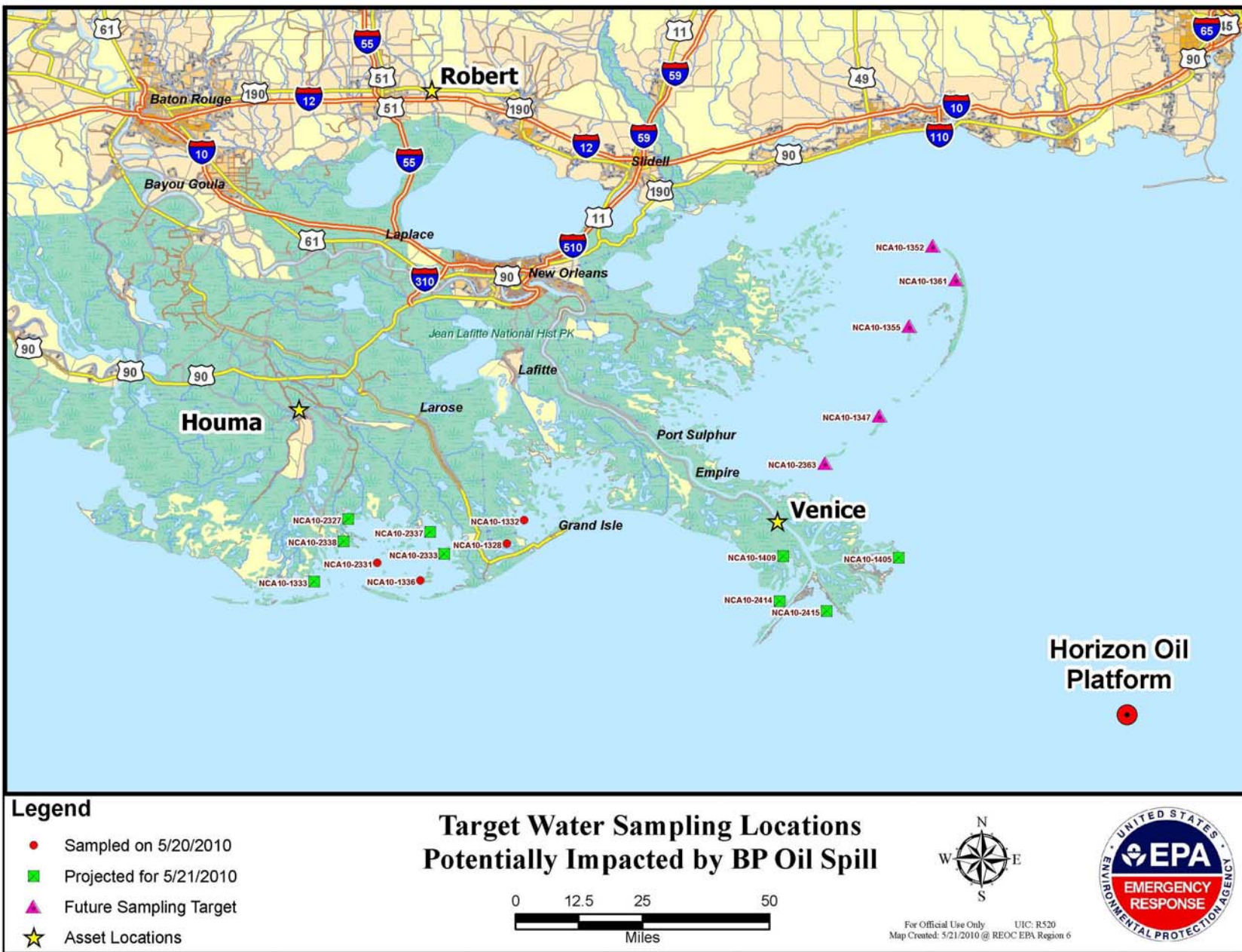
	Est. Personnel Cost	Est. Travel Cost	Est. Contracts/ Purchase Spent	Total Est. Cost/Spent	Total Contract/ Purchase Oblig.	Total USCG PRFA Ceiling	Balance	Est. Daily Burn Rate	Days left
USCG PRFA FPN N10036	\$292,906	\$134,609	\$2,348,398	\$2,775,913	\$3,397,142	\$4,577,819	\$1,801,906	\$120,813	15
TOTAL EPA FUNDED	\$292,906	\$134,609	\$2,348,398	\$2,775,913	\$3,397,142	\$4,577,819	\$1,801,906	\$120,813	15
Region 6 Indirect Rate 13.12%						\$600,610			
Louisiana Total	\$292,906	\$134,609	\$2,348,398	\$2,775,913	\$3,397,142	\$5,178,429	\$1,801,906	\$120,813	15



Figure 1 – View of water sampling operations.



# Monitoring/Sampling Locations



# Surface Oil Forecast Mississippi Canyon 252

NOAA/NOS/OR&R

Estimate for: 0600 CDT, Friday, 5/21/10

Date Prepared: 1300 CDT, Thursday, 5/20/10

This forecast is based on the NWS spot forecast from Thursday, May 20 AM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, Texas A&M/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Thursday morning satellite imagery analysis (NOAA/NESDIS) and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.

